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CIS 4331

Final Exam

Coronavirus Testing Database

4.

A)

* If we want to insert a new book without knowing the author's information or the publisher's information, we wouldn't be able to do so because those fields cannot be left empty.
* If we delete a book from the table and that book is the only one by a particular author, we would also delete the information about the author unless we have redundancy.
* If an author changes their institution, we'd have to update every row where that author appears instead of just one entry.

B)

|  |  |  |
| --- | --- | --- |
| AuthorID | AuthorLastName, AuthorFirstName,  AuthorInstitution | Partial |
| BookID | BookTitle, BookPrice, BookPublisher, PublisherCity | Partial |
| BookPublisher | PublisherCity | Transitive |
| AuthorID, BookID | AuthorBookRoyalty | Full |

C)

All 1 NF

D) 

E)



5.

A diagram of a diagram

Description automatically generated

It is not conflict serializable because the precedence graph is not an acyclic graph